control the one or more energy generation assets and the one or more energy storage assets in accordance with the desired response.

17. The system controller of claim **16**, wherein the instructions further cause the system controller to:

obtain real-time market input data that describes a current state of one or more market inputs, wherein the system controller determines at least one of the potential revenue value and the total cost value for each candidate response based at least in part on the market input data.

18. The system controller of claim **16**, wherein the instructions further cause the system controller to:

obtain real-time environmental data that describes a current state of one or more environmental conditions, wherein the system controller determines at least one of the potential revenue value and the total cost value for each candidate response based at least in part on the current state of the one or more environmental conditions.

19. The system controller of claim **16**, wherein the instructions further cause the system controller to:

obtain system constraint data that describes a current state of one or more system constraints, wherein the system controller determines, for each candidate response, at least one of the potential revenue value and the total cost value based at least in part on the current state of the one or more system constraints.

20. The system controller of claim **16**, wherein the instructions that cause the system controller to determine the asset life impact value and the total cost value cause the system controller to:

utilize a asset life map to obtain the total cost value for each candidate response, wherein the asset life map provides the total cost value as a function of one or more input parameters, the one or more input parameters including at least the state of asset data.

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